

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/556,285 04/24/00 TAYLOR

G

EXAMINER

MMC2/0716

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GLASTONBURY CT 06033

MUNSON, G

ART UNIT

PAPER NUMBER

2811

DATE MAILED:

07/16/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

556,285

Applicant(s)

G. TAYLOR

Examiner

G. MUNSON

Group Art Unit

2811

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE THREE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☐ Responsive to communication(s) filed on _____
- ☐ This action is FINAL.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-8 is/are pending in the application.
Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-8 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☒ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

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The specification is objected to under 35 U.S.C. 112, first paragraph, and 37 CFR 1.71. On pages 8-9, labels 151, 152, 170, 171 and 156-167 are not shown in Figure 1. On page 10, labels 121 and 116-118 do not agree with Figure 2. On page 10, line 22, and page 11, line 8, "Fig. 3" is incorrect. On page 11, label 112 is not shown in Figure 2. On page 12, label 110 does not agree with Figure 1. How an emitter is forward biased with respect to the collector (page 12, last three lines) is not explained at the first instance.

Claim 7 is objected to under 37 CFR 1.75. No dependence is stated. Perhaps "claim 2" is intended.

Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph. The structure of the semiconductor imaging device (claim 1), charge coupled device (claim 2), active pixel structure (claim 3), 3 phase operation (claim 6), implants for uniphase operation (claim 7), gate capacitor section (claim 8), active pixel stage (claim 8) and floating gate correlated CCD double sampler (claim 8) are not clearly described to enable any person skilled in the art to make and use the invention. Possible useful embodiments are not shown in the figures. See 37 CFR 1.83.

The claims are not further treated on the merits.

Fossum et al, Burke et al and Derkits are cited of interest. Fossum et al and Burke et al show use of heterojunction semiconductor imaging devices. Derkits (Figure 5) show use of a heterojunction charge coupled device.

No claim is allowed.

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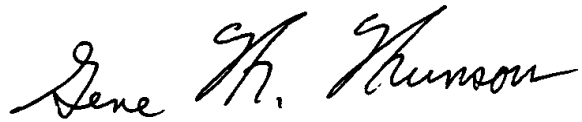
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Any inquiry concerning this communication should be directed to G. Munson at telephone number (703) 308-4925 or 0956.

Munson/nt

7/11/01

A handwritten signature in cursive script that reads "Gene M. Munson".

**GENE M. MUNSON
EXAMINER
GROUP ART UNIT 2811**